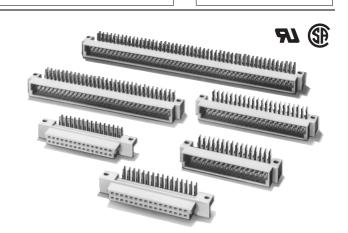


# **DIN-style Twin-contact Connectors**

XC5

## **Expanding the DIN Concept**

- Mates with DIN connectors.
- Ideal for automated soldering because the Connectors sit on top of the board.
- Mounting dimensions of the DIN Style-1 Connectors are the same as the DIN connector.
- DIN Style-2 Connectors have widened dimensions for ease of mounting.
- Conform to UL standards (file no. E103202) and CSA standards (file no. LR 62678). (Except XC5K models)



## **RoHS Compliant**

### ■ Ratings and Characteristics

| Rated current                 | 2 A  |
|-------------------------------|--|
| Rated voltage                 | 300 VAC  |
| Contact resistance            | 20 mΩ max. (at 20 mV, 100 mA max.)*              |
| Insulation resistance         | $10^6$ M $\Omega$ min. (at 100 VDC)              |
| Dielectric strength           | 1,000 VAC for 1 min (leakage current: 1 mA max.) |
| Total insertion force         | 0.59 N max. per contact                          |
| Removal force                 | 0.15 N min. (with test gauge, t = 0.56 mm)       |
| Insertion durability          | 50 times   |
| Ambient operating temperature | Operating: -55 to 125°C (with no icing)          |

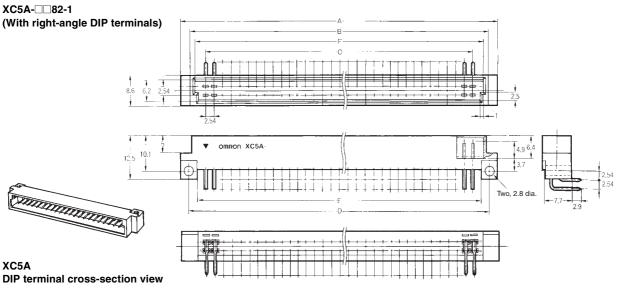
<sup>\*</sup>The XC5K is  $30 \text{m}\Omega$  max. (at 20 mV DC max., 100 mA max.)

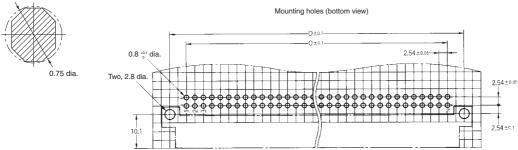
#### ■ Materials and Finish

| Туре                |          | Plugs   | Sockets   |  |
|---------------------|----------|---|---|--|
| Housings            |          | Fiber-glass reinforced PBT resin (UL94V-0)/gray |   |  |
| Contacts Mating end |          | Brass/nickel base,<br>0.15-μm gold plat-<br>ing | Phosphor bronze/<br>nickel base, 0.15-<br>µm gold plating |  |
|                     | Terminal | Brass/nickel base,<br>2.0-μm tin plating        | Phosphor bronze/<br>nickel base, 2.0-μm<br>tin plating    |  |

# XC5A Double-row Plugs, DIN Style 1







Note: Contact numbers are not marked on the product.

#### **Dimensions**

| No. of contacts | Dimensions (mm) |      |       |       |      |      |
|-----------------|-----------------|------|-------|-------|------|------|
|                 | Α               | В    | С     | D     | E    | F    |
| 16              | 32.8            | 27.0 | 17.78 | 27.94 | 23.0 | 24.2 |
| 20              | 37.9            | 32.1 | 22.86 | 33.02 | 28.1 | 29.3 |
| 24              | 43.0            | 37.2 | 27.94 | 38.10 | 33.1 | 34.4 |
| 30              | 50.6            | 44.8 | 35.56 | 45.72 | 40.8 | 42.0 |
| 32              | 53.2            | 47.4 | 38.10 | 48.26 | 43.3 | 44.6 |
| 44              | 68.4            | 62.6 | 53.34 | 63.50 | 58.5 | 59.8 |

| No. of   | Dimensions (mm) |       |        |        |       |       |
|----------|-----------------|-------|--------|--------|-------|-------|
| contacts | Α               | В     | С      | D      | E     | F     |
| 50       | 76.0            | 70.2  | 60.96  | 71.12  | 66.2  | 67.4  |
| 64       | 93.8            | 88.0  | 78.74  | 88.90  | 83.9  | 85.2  |
| 100      | 139.5           | 133.7 | 124.46 | 134.62 | 129.7 | 130.9 |

# ■ Ordering Information

| No. of contacts | Terminal type   | Model       |
|-----------------|-----------------|-------------|
| 16              | Right-angle DIP | XC5A-1682-1 |
| 20              | terminals       | XC5A-2082-1 |
| 24              |                 | XC5A-2482-1 |
| 30              |                 | XC5A-3082-1 |
| 32              |                 | XC5A-3282-1 |
| 44              |                 | XC5A-4482-1 |
| 50              |                 | XC5A-5082-1 |
| 64              |                 | XC5A-6482-1 |
| 100             |                 | XC5A-0182-1 |

Note: These Connectors cannot be coded. There is no Coding Key available for them.